Counting Clock Pro

User Guide

Colorado TIME SYSTEMS®

F925 Rev. 0707

Colorado Time Systems

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Introduction

Thank you for purchasing a Colorado Time Systems Counting Clock Pro.

Introduction

This introductory chapter describes physical features of your clock. Subsequent chapters describe how to set up and use your Counting Clock Pro.

Counting Clock Operation

Chapter 2 describes how to physically set up and use the Counting Clock.

How to Set Intensity and Mode

Use the Mode switch on the front panel to set intensity and mode, as follows:

Intensity

When a Counting Clock Pro is turned on, all digits will light and then the clock will display **in** and a number for Intensity. While **in** is displayed, the Mode switch adjusts the intensity of the display. Fifteen levels of intensity are available, from 1 (lowest) to 15/16 (highest). Select the desired intensity.

NOTE: The initial intensity displayed will be the last setting saved before the clock was turned off. It will not change until the knob is turned for the first time.

Mode

After the Mode switch has been in the same intensity setting for 4 seconds, the clock will display the firmware revision, and then the current mode. At this point, the Mode switch changes the mode (and only the mode) until the clock is turned off and then on again.

Physical Details

The physical connections and switches are on the left side of the front panel.

Inputs Used

Plug the devices providing the input into the proper connector(s) on the front panel:

Start System

Plug the launch pad into the Start System jack.

Touchpads

There are two touchpad inputs. Plug the finish pad into either of them. The touchpad inputs are connected to the same internal signal, so it makes no difference which one is used.

Reset / Breakout

Plug a pushbutton into the Reset / Breakout jack to use for resetting the clock (optional for Speed Timer mode, required for Five Minute Countdown).

Scoreboard/Training

The Scoreboard/Training switch is not used on the Counting Clock Pro. It can be set to either position.

Battery

The internal battery can supply power to the pace clock. A fully charged battery will run the unit for a minimum of 6 hours. Leave the unit plugged in overnight to fully charge the battery after use. The battery charges any time the unit is plugged in to AC power.

Horn

The internal horn will sound at the end of the Five Minute Countdown, for one second.

Legs

The clock includes legs. If you would like to use the legs, attach them with the hardware included to the threaded mounting holes in the bottom of the clock.

AC Power connection

The power receptacle is on the right end of the clock. It accepts a standard power cord for 110 VAC. If 220 VAC is required, the power supply can be modified at the factory. Modified units are labeled accordingly.

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Counting Clock Operation

Five Minute Countdown

Mode 1

Equipment required:

Launch pad and pushbutton

Set up:

Connect the launch pad to the Start System jack, and the pushbutton to the Reset / Breakout jack.

Operation:

The clock displays 01, indicating mode 1. After about 3 seconds, the display will show 5:00. The clock will begin counting down when the climber leaves the launch pad.

The horn will sound for 1 second when the clock reaches zero. Double-clicking the pushbutton will stop the horn if it is sounding.

Reset the clock to 5:00 by double-clicking the pushbutton.

Speed Timer

Mode 2

Equipment required:

Launch pad and finish pad

Set up:

Connect the launch pad to the Start System jack, and the finish pad to either Touchpad jack (it doesn't matter which one).

Operation:

The clock displays 02, indicating mode 2. After about 3 seconds, the display will show only the colon and rightmost decimal.

When the climber leaves the launch pad, the clock will begin counting up, displaying seconds and tenths (SS.T). Once the running time is above a minute, the time is shown as minutes and seconds (MM:SS). Hundredths continue to be recorded, and when the

climber touches the finish pad, the clock will display the finish time alternating between minutes and seconds (MM:SS) and seconds and hundredths (SS.HH).

A start input or a double click from the pushbutton will reset and start the clock any time the running time is displayed.

Test Mode

Mode 16

Equipment required:

Depends upon testing.

Set up:

Follow specific instructions from CTS customer service representative.

Operation:

The clock displays 16, indicating mode 16. It will then cycle through a digit test. Note that the decimal after the third digit is never used, and will not light during the digit test.

Input ports can also be tested. When an input port receives a signal the clock shows which input port was triggered, as shown:

Touchpad	PAd
Relay Platform	rJP
Start	StAr
Reset/Breakout	rSET

Other Modes

Modes 3 -- 15

All other modes are not used. The clock displays the mode number, and then displays nA.

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